Authors

A

Acharya, Prakash 54
Adams, Carl E. 281
Allison, M.P. 121
Anderson, Mary B. 145
Angelo, M.S. 29

B

Bakeer, Reda M. 145
Ball, Brandon R. 121
Bhattacharyya 137
Bello, C.E. 13
Beu, Laurie. 245
Bollinger, James E. 145
Boumediene, Belkhouche. 145
Boyes, A.P. 125
Bradford, Mike. 179
Brancato, M.S. 121
Breske, T.C 29
Brica, R Mark. 208, 274
Brix, K.V. 121

C

Cañadas, Louis. 20, 98
Carver, James C. 106
Chang, Shih-Ger. 1, 301
Chao, Allen C. 274
Chen, Hsiao-Lin. 145
Chen, P. 227
Cho, Jong Soo 35
Collick, Scott, J 16
Croce, Sarita 171
Croy, Robert L 297

D

DeBerry, David 193
DeGenova, John 263
Delay, I 65
Demtchouk, Irina. 145
Dickeson, Dan 43
DiGiulio, Dominic 35

E

Eggerstedt, Paul 93
Englande, A.J. 145
Ewan, B.C.R 65

F

Frisbie, Seth 171

G

George, William J. 145
Gotpagar, J 137
Griffin, L.P. 29
Groff, Paul W. 116
Grulke, E 132
Gullett, Brian K. 47, 116

H

Hartley, James D. 215
Hartley, William R. 145
Hendrickson, D.W. 251
Henry, Melanie. 145
Hempfling, Craig. 164
Hernandez, Raul. 145
Hughes, Janet M. 145
Hwang, Shyh-Jye. 187

I

Iijima, Masaki. 200
Isaacson, R.S. 29
Iwaki, Toru. 200

J

Jin, Yun 1
Johnson, Herbert A 16
Jones, B 65
Jozewicz, Wojciech 47

K

Kennedy, Gina 93
Khan, Z. 125
Krishnan, S.V 47

L

Lanza, M.B. 29
Lashier, Mark E. 297
Lawrence, D 65
Lee, D.D. 251
Legiec, I.A. 29, 88
Levitt, Raymond E 82
Lin, Daryl. 145
Logan, Douglas A. 237
Luna, Ronaldo. 145

M

Marino, Michael A. 208
Matelli, Guy. 179
Matthews, Roger 9
Means, Jay C. 145
Mendicino, Laura. 245
Mitsuoka, Shigeaki. 200

N

Nasserzadeh, V 65
Navarrete, B 98
Neale, C. Nelson. 208, 274
Nelson, Allan D 43

O

Ollero, Pedro 20, 98
Oralkan, Gaye A 82

P

Pezolt, Daniel J 16
Perlmutter, Barry A 132
Preslan, J.E. 145

R

Ramey, Dotti. 287
Raymahasay, S 125
Regens, James L. 145
Roberts, Paul V. 82, 215
Robbins, Lanny A. 16
Rocha, Carlos. 179

S

Salvador, Luis. 20, 98
Santamarina, Victor E. 269
Schmitt, Ralph J 43
Siegell, J.H. 13
Simpson, Cynthia Wyman. 297
Singh, Anu. 281
Sinha, Pinaki. 297
Shi, Yao. 301
Smyth, Gary. 179
Staudinger, Jeff. 82, 215
Steinberg, Laura J 145
Suda, Taiichiro 200
Sutfin, Julie A 287
Swalm, Christopher M 145
Swithenbank, J 65

T

Tanaka, Hiroshi 200
Tang, Hsiu-Mu 187
Tavalarides, L.L. 227
Taylor, P.A. 251
Thibodeaux, Louis, J. 106
Tipton, Dennis B 297
Tsang, T ..... .137

U

Urban, David 171

V

Vacker, Don 184
Vail, S.M. 121
Vardy, James A 35

W

Walker, J.F, Jr 251
Walling, P.D. Jr. 29
Wang, Hai 301
Wang, Wen-Chuan 187
Wilson, John T 35
Winterbottom, J.M. 125

Y

Yu, Qiquan 1

Z

Zhou, W 227
Zievers, Elizabeth C 93

Titles

A

Application of Design for Environment Concepts to the Semiconductor Industry.. 245

B

Biological Treatment of Salty Wastewater. 179

C

Cesium-Removal Flow Studies Using Ion Exchange. 251

Chemical Evolution of Liquid Redox Processes. 193

Countercurrent Absorption of CO2 in a real Flue Gas into Aqueous Alkanolamine Solutions in a Wetted Wall Column 200

Compliance Strategy for Cyanides in Petroleum Refinery Wastewater: Part I - Source Characterization and Treatment. 171

D

Database on Water Quality of the Mississippi River, A. 145

Dupont Soil Washing Technology Program and Treatment of Arsenic Contaminated Soils. 29

E

Estimating Physical Properties for Control Equipment Design.. 237

Evaluating Acids and Chelating Agents for Removing Heavy Metals from Contaminated Soils 274

Experimental Study of Flue Gas Desulfurization in a Pilot Spray Dryer, An. 20

H

Haztimator Knowledge-Based (Expert) System: Providing Design and Time/Cost Estimates for Hazardous Waste Remediation. . . 82

Heavy Metal Soil Redediation: The Effects of Attrition Scrubbing on a Wet Gravity Concentration Process. 208

Hindcasting Volatile Chemical Emissions to Air from Oonded Recycle Oil 106

I

Industrial Boiler Retrofit for NOx Control: Combined Selective Noncatalytic Reduction and Selective Catalytic Reduction. 116

Important Design Considerations in Wastewater Treatment Plants. . . 184

In Situ Air Injection, Soil Vacuum Extraction and Enhanced Biodegradiation: A Case Study in a JP-4 Fuel Contaminated Site . . 35

In Situ Biological Treatment of TCE-Impacted Soil and Groundwater: Demonstration Results. 287

K

Kinetics of NO Absorption in Aqueous Iron (II) Thiochelate Solutions. . . 301

M

Mercury Control in Municipal Waste Combusters and Coal-fired Utilities 47

Modeling of Acetone Biofiltration Process 187

Modeling and Optimization of a Municipal Treatment Plant Using EnviroPro Designer. 269

N

New Techniques for Solvent Recovery and Elimination of Wastewater Emissions during Vacuum Process Operations. 132

NO_x PEMS Experience on Operating Ethylene Furnaces. 297

P

Performance Update: Low Pressure Wet Air Oxidation Unit at Grangemouth, Scotland. 9

Parametric Testing of Coal Electrostatic Precipitator Performance 98

Pb Mobility and Extractant Optimization for Contaminated Soils. 88

Photocatalyzed Oxidation of Phenol in Water Using a Concurrent Downflow Contractor Reactor(CDCR). 125

Pressure Swing Adsorption for VOC Recovery at Gasoline Loading Terminals 16

Process Challanges and Evaluation of Bed Agglomeration in a Circulating Bed Combustion System Incinerating Red Water. 54

R

Rapid Evaluation and Installation of a Low Cost Water Treatment Scheme at a Superfund Site. 281

Recovery, Reuse, and Recycle, of Water in Semiconductor Wafer Fabrication Facilities. 263

Reduction of Sulfur Dioxide by Syngas to Elemental Sulfur Over Iron-Based Mixed Oxide Supported Catalyst 1

Reductive Dehalogenation of Trichlorethylene Using Zero-Valent Iron 137

Remediation of Polychlorinated Biphenyl Contaminated Soils/ Sediments by Supercritical Fluid Extraction 227

Research Investigations at the Municipal and Clinical Waste Incinerators in Sheffield, UK. 65

S

Simplified Approach for Preliminary Design and Process Performance Modeling of Soil Vapor Extraction Systems, A 215

Simultaneous Hot Desulfurization and Improved Filtration in Coal Utilization Processes. 93

U

Ultraviolet/Oxidation Treatment of Explosive Wastewaters Using a Commercial Process. 164

Upgrading the Perforamce of Groundwater VOC Air Strippers . . 43

W

Whole Effluent Toxicity Reduction by Ozone 121

Why Valves Leak: A Search for the Cause of Fugitive Emissions. 13

Subjects

A

Absorption of CO_2 200
Acetone biofiltration process. 187
Adsorption, pressure swing. 16
Air
  injection, *in situ*. 35
  strippers, groundwater VOC. 43
  volatile chemical emissions to . . 106
Aqueous alknolamine solutions. . . 200
Arsenic contaminated soils. 29

B

Bed agglomeration, evaluation of. . . 54
Biodegradation, enhanced. 35
Biofiltration process, acetone. 187
Boiler retrofit, industrial 116

C

Catalyst, mixed oxide supported. 1
Cesium-removal. 251
Chemical emissions, volatile. 106
Circulating bed combustion system..54
Coal
  electrostatic precipitator. 98
  -fired utilities. 47
  utilization processes 93
Combustion system 54
Combustors, municipal waste. 47
Contaminated
  site, JP-4 fuel. 35
  soils 29, 88

D

Database on water quality. 145
Dehalogenation, reductive. 137
Design
  control equipment. 237
  for remediation system 82
Desulfurization
  flue gas. 20
  hot, in coal utilization processes. . 93
Downflow contactor reactor 125

E

Electrostatic precipitator 98
Elemental Sulfur 1
Emissions
  fugitive. 13
  volatile chemical. 106
  wastewater. 132

F

Filtration, desulfurization and. 93
Flue gas. 20, 200
Fugitive emissions. 13

G

Groundwater VOC air strippers. . . . 43

H

Hazardous waste. 82
Haztimator system. 82
Hot desulfurization. 93

I

Industrial boiler retrofit. 116
Incinerating, combustion system. . . 54
Incinerators
  municipal and clinical 65
Inorganic lead contaminated soils. . 88
Iron
  -based mixed oxide. 1
  zero-valent. 137

L

Liquid Redox processes. 193
Low pressure oxidation unit.. 9

M

Mercury control.. 47
Municipal
  waste combustors. 47
  treatment plant. 269

N

NO_x control 116
Noncatalytic reduction. 116

O

Oil, ponded recycle. 106
Oxidation
  of phenol in water. 125
  Unit 9
Ozone reduction 121

P

Pb mobility for contaminated soils.. 88
Pilot spray dryer. . . . . .. .20
Polychlorinated bipenyl 227
Ponded recycle oil. 106

R

Reactor, downflow contactor. 125
Reduction
  combined seletive. 116
  toxicity. 121
Red water, incinerating. 54
Remediation, hazardous waste 82

S

Scrubbing, attrition. 208
Selective catalytic reduction.. 116
Semiconductor
  industry. 245
  wafer fabrication facilities. 263
Site, JP-4 fuel contaiminated.. 35
Soil(s)
  arsenic contaminated. 29
  heavy metal contaminated . 208, 274
  inorganic lead contaminated.. . . . 88
  vacuum extraction. 35
  washing technology. 29
Solvent recovery. 132
Spray dryer, pilot. 20
Sulfur Dioxide, reduction of 1
Supercritial fluid extraction. 227
Syngas 1

T

Toxicity reduction by ozone. 121
Trichloroethylene. 137

U

Ultraviolet/oxidation treatment. . . . 164
Utilities, coal fired. 47

V

Vacuum
  extraction, soil.. 35
  process operations. 132
Valves, why they leak. 13
Volatile Organic Compounds (VOC)
  air strippers. 43
  recovery 16

W

Water
  phenol in. 121
  treatment scheme. 281
Wastewater
  design of treatment plants. 184
  emissions. 132
  explosive. 164
  cyanides in petroleum refinery. . .171
  salty, biological treatment of. . . . 179
Wetted wall column. 200